

Calculation of dice scores

YH Yunyun Han PF Peng Fei

Updated date: Apr 1, 2021

An abbreviated version of this protocol was published in eLIFE in Jan 2021

Bi-channel image registration and deep-learning segmentation (BIRDS) for efficient, versatile 3D mapping of mouse brain

DOI: 10.7554/eLife.63455

Detailed protocol

Dear Shawn Wu:

The dice scores is defined as:

$$Dicescores = \frac{2 |I \cap J|}{|I| + |J|}$$

where I and J represents brain regions before and after registration, and $| \cdot |$ returns pixel number of the region.

The dice scores was also used in:

Ni, H., et al., A Robust Image Registration Interface for Large Volume Brain Atlas. *Scientific Reports*, 2020. 10(1).

Best wishes,

Zhaofei Wang

How to cite: (Readers should cite both the Bio-protocol preprint and the original research article where this protocol was used)

1. Han, Y. and Fei, P. (2021). Calculation of dice scores. Bio-protocol Preprint. bio-protocol.org/prep989.
2. Wang, X., Zeng, W., Yang, X., Zhang, Y., Fang, C., Zeng, S., Han, Y. and Fei, P.(2021). Bi-channel image registration and deep-learning segmentation (BIRDS) for efficient, versatile 3D mapping of mouse brain. eLIFE. DOI: [10.7554/eLife.63455](https://doi.org/10.7554/eLife.63455)

Copyright: Content may be subjected to copyright.